



# **HARGRAVE**

## *Quality Tools*

Manufactured by  
**THE CINCINNATI TOOL COMPANY**

**CATALOG No. 91**



**For sale by:**

**The Geo. H. Mead Co.**  
**Fifth Avenue, (Opp. P. O.)**  
**Huntington, W. Va.**

## BIT STOCK DRILLS FOR WOOD AND METAL.



Made from a special grade of steel, properly tempered.

### BELL HANGERS' AND ELECTRICIANS' DRILL.



This drill is made particularly for bell hangers, car builders, electricians, telephone and telegraph workers. It is made of special steel, which, while holding a much more durable edge than the ordinary steel will hold, is almost impossible to break. It will go through a nail or screw, through plastering or brick walls without injury to the bit.

This drill is made in 12", 18", 24", 30", and 36" lengths. Price given is for the 18" length, and prices for other lengths are in proportion.

| Size    | B. S. Drill<br>Wood |        | B. S. Drill<br>Metal |        | Bell Hanger<br>or Elec. Drill<br>18" Length |         |
|---------|---------------------|--------|----------------------|--------|---------------------------------------------|---------|
|         | Each                | Dozen  | Each                 | Dozen  | Each                                        | Dozen   |
| 2-32..  | \$0.28              | \$3.25 | \$0.21               | \$2.50 | .....                                       | .....   |
| 3-32..  | .28                 | 3.25   | .23                  | 2.70   | .....                                       | .....   |
| 4-32..  | .28                 | 3.25   | .25                  | 3.00   | .....                                       | .....   |
| 5-32..  | .30                 | 3.50   | .30                  | 3.50   | .....                                       | .....   |
| 6-32..  | .34                 | 4.00   | .34                  | 4.00   | \$0.84                                      | \$10.00 |
| 7-32..  | .38                 | 4.50   | .38                  | 4.50   | .....                                       | .....   |
| 8-32..  | .42                 | 5.00   | .42                  | 5.00   | .88                                         | 10.50   |
| 9-32..  | .46                 | 5.50   | .50                  | 6.00   | .....                                       | .....   |
| 10-32.. | .50                 | 6.00   | .59                  | 7.00   | .92                                         | 11.00   |
| 11-32.. | .55                 | 6.50   | .67                  | 8.00   | .....                                       | .....   |
| 12-32.. | .59                 | 7.00   | .71                  | 8.50   | 1.00                                        | 12.00   |
| 13-32.. | .63                 | 7.50   | .78                  | 9.25   | .....                                       | .....   |
| 14-32.. | .67                 | 8.00   | .88                  | 10.50  | 1.09                                        | 13.00   |
| 15-32.. | .73                 | 8.75   | .98                  | 11.75  | .....                                       | .....   |
| 16-32.. | .80                 | 9.50   | 1.09                 | 13.00  | 1.21                                        | 14.50   |
| 17-32.. | .86                 | 10.25  | 1.19                 | 14.25  | .....                                       | .....   |
| 18-32.. | .92                 | 11.00  | 1.29                 | 15.50  | 1.34                                        | 16.00   |
| 19-32.. | .98                 | 11.75  | 1.40                 | 16.75  | .....                                       | .....   |
| 20-32.. | 1.05                | 12.50  | 1.50                 | 18.00  | 1.48                                        | 17.75   |
| 22-32.. | 1.21                | 14.50  | 1.75                 | 21.00  | 1.63                                        | 19.50   |
| 24-32.. | 1.38                | 16.50  | 2.00                 | 24.00  | 1.79                                        | 21.50   |
| 26-32.. | 1.55                | 18.50  | 2.25                 | 27.00  | 1.96                                        | 23.50   |
| 28-32.. | 1.75                | 21.00  | 2.50                 | 30.00  | 2.13                                        | 25.50   |
| 30-32.. | 2.00                | 24.00  | 2.75                 | 33.00  | 2.30                                        | 27.50   |
| 32-32.. | 2.25                | 27.00  | 3.00                 | 36.00  | 2.50                                        | 30.00   |

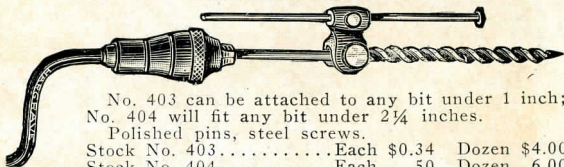
## ADJUSTABLE COUNTER-SINK



Fits any drill from  $\frac{1}{8}$  to  $\frac{1}{4}$  inch. It is made of tool steel, tempered. Intended for wood only.

Stock No. 402.....Each \$0.50 Dozen \$6.00

## BIT GAUGE



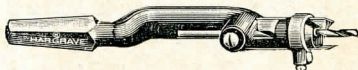
No. 403 can be attached to any bit under 1 inch;  
No. 404 will fit any bit under  $2\frac{1}{4}$  inches.

Polished pins, steel screws.

Stock No. 403.....Each \$0.34 Dozen \$4.00

Stock No. 404.....Each .50 Dozen 6.00

## SCREW AND PLUG BIT.



For finishing fine work, using plugs instead of putty to cover the screw heads. Can be gauged to give the correct depth for the screw and plug, boring both holes in one operation. Plug cutter to match furnished.

Per set

Stock No. 350— $\frac{1}{2}$ " diameter, with plug cutter.....\$4.50

Stock No. 351— $\frac{9}{16}$ " diameter, with plug cutter..... 4.80

Stock No. 352— $\frac{5}{8}$ " diameter, with plug cutter..... 5.00

Stock No. 353—Knives only, bent.....Each .42

Stock No. 354—Knives only, straight.....Each .34

## IMPROVED PLUG CUTTER.



Intended to cut the plug to cover work. Knives are interchangeable and can be replaced at a small cost. They are made of the best tool steel, carefully tempered.

Stock No. 355— $\frac{3}{8}$ " diameter..... Each \$0.55 Dozen \$ 6.50

Stock No. 356— $\frac{7}{16}$ " diameter..... Each .59 Dozen 7.00

Stock No. 357— $\frac{1}{2}$ " diameter..... Each .59 Dozen 7.00

Stock No. 358— $\frac{9}{16}$ " diameter..... Each .63 Dozen 7.50

Stock No. 359— $\frac{5}{8}$ " diameter..... Each .67 Dozen 8.00

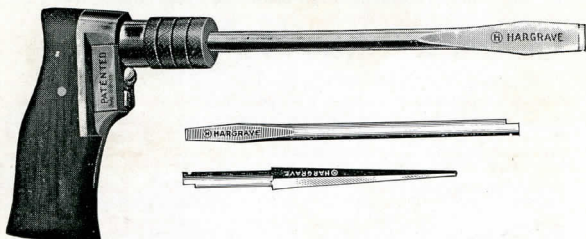
Stock No. 360— $\frac{3}{4}$ " diameter..... Each .84 Dozen 10.00

Stock No. 3601— $\frac{7}{8}$ " diameter..... Each 1.34 Dozen 16.00

Stock No. 3602—1" diameter..... Each 1.67 Dozen 20.00

## PISTOL GRIP RATCHET SCREW DRIVER.

*Furnished with Interchangeable Blades to Fit  
Common Sizes of Screws*



This improved screw driver gives a firm grip to turn the most stubborn screw. It is a natural grip and will not tire the hand.

Easy running screws may be quickly turned without taking the hand from the handle with the knurled ferrule.

Two widths of blades are furnished to fit common size screws. The reamer is handy in starting screws and similar work. The blades are changed without adjustments.

Set consists of handle, two blades and reamer.

| Blades only                |        |              | Blades only |      |              |
|----------------------------|--------|--------------|-------------|------|--------------|
|                            | Each   | Set Complete |             | Each | Set Complete |
| 3 in.                      | \$0.40 | \$2.50       | 8 in.       | .50  | 2.70         |
| 4 in.                      | .40    | 2.50         | 10 in.      | .60  | 2.90         |
| 6 in.                      | .50    | 2.70         | 12 in.      | .60  | 2.90         |
| Handle complete, only..... |        |              |             | Each | \$1.20       |
| Reamer, only .....         |        |              |             | Each | .50          |

## OFF-SET SCREW DRIVER.

Stock No. 600



For use in places where an ordinary Screw Driver cannot be used to advantage. Especially useful for assembling and for automobile work.

|                          |      |        |       |        |
|--------------------------|------|--------|-------|--------|
| 4 1/2 x 5/16 inches..... | Each | \$0.34 | Dozen | \$4.00 |
| 6 x 5/16 inches.....     | Each | .38    | Dozen | 4.50   |
| 8 x 3/8 inches.....      | Each | .42    | Dozen | 5.00   |
| 10 x 1/2 inches.....     | Each | .59    | Dozen | 7.00   |

**SCREW DRIVER.**

Stock No. 107

Hardwood Handle, Polished Blade and Cross Ground Tip.



This screw driver is of the very best quality throughout. The blade is made of a special chrome nickel steel which almost entirely overcomes breakage. The cross ground tip is a very great aid in preventing the screw driver from slipping from the slot of the screw. The blade is guaranteed not to turn in the handle. The handle is of hardwood, highly polished mahogany finish with nickel steel ferrule. Each tool is tested.

| Size               | Each   | Dozen  | Size            | Each   | Dozen  |
|--------------------|--------|--------|-----------------|--------|--------|
| 2 1/2-inch blade.. | \$0.25 | \$3.00 | 8-inch blade..  | \$0.67 | \$8.00 |
| 3 -inch blade..    | .30    | 3.50   | 9-inch blade..  | .75    | 9.00   |
| 4 -inch blade..    | .36    | 4.25   | 10-inch blade.. | .84    | 10.00  |
| 5 -inch blade..    | .42    | 5.00   | 12-inch blade.. | 1.00   | 12.00  |
| 6 -inch blade..    | .50    | 6.00   | 15-inch blade.. | 1.25   | 15.00  |
| 7 -inch blade..    | .59    | 7.00   | 18-inch blade.. | 1.50   | 18.00  |

**TELEPHONE SCREW DRIVER.**

Stock No. 135—Hardwood Handle.



Hardwood fluted handle, mahogany finish, 3 1/2 inches long; 1-inch diameter, nicked steel ferrule. Blade of best tool steel, 1/8-inch in diameter. Polished.

| Size               | Each   | Dozen  | Size                | Each   | Dozen  |
|--------------------|--------|--------|---------------------|--------|--------|
| 1 1/2-inch blade.. | \$0.25 | \$3.00 | 6 1/2-inch blade..  | \$0.55 | \$6.50 |
| 2 1/2-inch blade.. | .25    | 3.00   | 8 1/2-inch blade..  | .67    | 8.00   |
| 3 1/2-inch blade.. | .30    | 3.50   | 10 1/2-inch blade.. | .80    | 9.50   |
| 4 1/2-inch blade.. | .38    | 4.50   | 12 1/2-inch blade.. | .92    | 11.00  |
| 5 1/2-inch blade.. | .46    | 5.50   |                     |        |        |

**BRACE SCREW DRIVER BIT.**

Stock No. 144—Polished Finish.



Polished blade and cross ground tip. This brace screw driver is as near trouble-proof as it is possible to make it. A special grade of chrome nickel steel is used which almost entirely overcomes breakage. In fact, we guarantee this bit absolutely against breakage. The tip is cross ground so that the screw driver will not slip from the slot of the screw. The finish is the best and the tip is hardened so that it will wear indefinitely. It is the best tool of its kind on the market.

| Size              | Each   | Dozen  | Size              | Each   | Dozen  |
|-------------------|--------|--------|-------------------|--------|--------|
| 1/4-inch blade... | \$0.34 | \$4.00 | 3/8-inch blade... | \$0.42 | \$5.00 |
| 1/2-inch blade..  | .38    | 4.50   | 7/8-inch blade..  | .46    | 5.50   |



## COLD CHISELS.

CAPE



HALF ROUND GOUGE



All our Chisels, Gouges and Punches are made of a special grade of steel and are extremely tough. They are carefully hardened. The width of the blade of our Cold Chisels is the same as the diameter of the stock, which gives a massive, durable tool and one which does not sting the hand.

We make but one quality of Chisels, Gouges and Punches, but we make them in two finishes. The polished tool has a black enamel shank with the head and the two bevel faces polished. The black tool is oil finished and has no painting or polishing, but is of exactly the same material. Black Chisels cost 10% less than polished. Please state which is wanted. Each tool is given a working test.

We also make chisels in 10", 12", 15", 18" and 24" lengths, as well as a complete line of Half Round Gouges, Cape, Diamond Point and Round Nose Chisels. Solid, Center and Prick Punches.

Prices of regular Cold Chisels are as follows. Other prices are in proportion:

DIAMOND POINT



ROUND NOSE



| Width<br>of Blade    | Length                 | Each   | Polished<br>Dozen |
|----------------------|------------------------|--------|-------------------|
| $\frac{1}{4}$ -inch  | 5 inches               | \$0.17 | \$2.00            |
| $\frac{5}{16}$ -inch | 5 inches               | .20    | 2.40              |
| $\frac{3}{8}$ -inch  | 5 inches               | .24    | 2.80              |
| $\frac{1}{2}$ -inch  | 6 inches               | .29    | 3.40              |
| $\frac{5}{8}$ -inch  | 6 $\frac{1}{2}$ inches | .35    | 4.20              |
| $\frac{3}{4}$ -inch  | 7 inches               | .50    | 6.00              |
| $\frac{7}{8}$ -inch  | 8 inches               | .67    | 8.00              |
| 1-inch               | 8 $\frac{1}{2}$ inches | .84    | 10.00             |

## CAPE, HALF ROUND GOUGE, DIAMOND POINT AND ROUND NOSE CHISELS.

|                      |                 |                 |                 |               |                 |
|----------------------|-----------------|-----------------|-----------------|---------------|-----------------|
| Cutting Edge.....    | $\frac{1}{8}$   | $\frac{1}{4}$   | $\frac{3}{8}$   | $\frac{1}{2}$ | $\frac{3}{4}$   |
| Length .....         | 4 $\frac{1}{2}$ | 6 $\frac{1}{2}$ | 7 $\frac{1}{2}$ | 8             | 8 $\frac{1}{2}$ |
| Diameter Steel ..... | $\frac{5}{16}$  | $\frac{1}{2}$   | $\frac{5}{8}$   | $\frac{3}{4}$ | $\frac{7}{8}$   |
| Each, Polished.....  | \$0.30          | \$0.42          | \$0.50          | \$0.63        | \$0.75          |
| Dozen, Polished .... | 3.50            | 5.00            | 6.00            | 7.50          | 9.00            |

## DRIFT PUNCHES



For driving out pins and bushings and lining up bolt and rivet holes. Hand forged. Point hardened and tempered.

Made in natural finish only, with semi-polished taper and head.

|              |                |               |                |               |
|--------------|----------------|---------------|----------------|---------------|
| Point .....  | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ |
| Steel .....  | $\frac{5}{8}$  | $\frac{5}{8}$ | $\frac{5}{8}$  | $\frac{3}{4}$ |
| Length ..... | 10             | 10            | 10             | 10            |
| Each .....   | \$0.75         | \$0.84        | \$0.92         | \$1.00        |
| Dozen .....  | 9.00           | 10.00         | 11.00          | 12.00         |

## SOLID PUNCHES.



|                       |                |               |                |               |               |
|-----------------------|----------------|---------------|----------------|---------------|---------------|
| Point .....           | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Steel .....           | $\frac{3}{8}$  | $\frac{1}{2}$ | $\frac{1}{2}$  | $\frac{5}{8}$ | $\frac{5}{8}$ |
| Length .....          | $5\frac{1}{2}$ | 6             | 6              | 7             | 8             |
| Each, Polished .....  | \$0.20         | \$0.30        | \$0.40         | \$0.42        | \$0.50        |
| Dozen, Polished ..... | 2.40           | 3.60          | 4.80           | 5.00          | 6.00          |

## PIN PUNCHES.



|                       |                |                |                |                |
|-----------------------|----------------|----------------|----------------|----------------|
| Point .....           | $\frac{1}{8}$  | $\frac{3}{16}$ | $\frac{1}{4}$  | $\frac{5}{16}$ |
| Steel .....           | $\frac{3}{8}$  | $\frac{3}{8}$  | $\frac{3}{8}$  | $\frac{3}{8}$  |
| Length .....          | $6\frac{1}{2}$ | $6\frac{1}{2}$ | $7\frac{1}{2}$ | $7\frac{1}{2}$ |
| Each, Polished .....  | \$0.34         | \$0.34         | \$0.34         | \$0.34         |
| Dozen, Polished ..... | 4.00           | 4.00           | 4.00           | 4.00           |

## CENTER PUNCHES



|                         |               |               |               |
|-------------------------|---------------|---------------|---------------|
| Diameter of Steel ..... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Length .....            | 3             | 5             | 6             |
| Each, Polished .....    | \$0.15        | \$0.18        | \$0.40        |
| Dozen, Polished .....   | 1.80          | 2.30          | 4.80          |

## PRICK PUNCHES



|                         |               |               |               |
|-------------------------|---------------|---------------|---------------|
| Diameter of Steel ..... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Length .....            | 3             | 5             | 6             |
| Each, Polished .....    | \$0.15        | \$0.18        | \$0.40        |
| Dozen, Polished .....   | 1.80          | 2.30          | 4.80          |

## FLOOR OR WRECKING CHISELS



|                              |              |                      |            |             |
|------------------------------|--------------|----------------------|------------|-------------|
| Straight, Stock No. 582..... |              | 1 1/2 x 3/4 x 18 in. |            |             |
| Bent, Stock No. 583.....     |              | 1 1/2 x 3/4 x 18 in. |            |             |
| Stock No.                    | Cutting Edge | Diameter Steel       | Price Each | Price Dozen |
| 582                          | 1 1/2 in.    | 3/4 in.              | \$1.04     | \$12.40     |
| 583                          | 1 1/2 in.    | 3/4 in.              | 1.09       | 13.00       |

## ALL STEEL WOOD CHISELS



| Stock No.     | Cutting Edge | Diameter Steel | Length | Price Each | Price Dozen |
|---------------|--------------|----------------|--------|------------|-------------|
| 577 Straight  | 1/2 in.      | 1/2 in.        | 10 in. | \$0.59     | \$7.00      |
| 578 Straight  | 3/4 in.      | 5/8 in.        | 12 in. | .75        | 9.00        |
| 579 Straight  | 1 in.        | 5/8 in.        | 12 in. | .75        | 9.00        |
| 5790 Straight | 1 1/4 in.    | 3/4 in.        | 12 in. | .84        | 10.00       |
| 580 Bent      | 3/4 in.      | 5/8 in.        | 12 in. | .84        | 10.00       |
| 581 Bent      | 1 in.        | 5/8 in.        | 12 in. | .84        | 10.00       |

## STONE POINTS



| Diam. | Lgth. | Each   | Doz.    | Diam. | Lgth. | Each   | Doz.    |
|-------|-------|--------|---------|-------|-------|--------|---------|
| 3/4   | 12    | \$0.84 | \$10.00 | 1     | 18    | \$1.67 | \$20.00 |
| 3/4   | 15    | 1.00   | 12.00   | 1     | 24    | 1.90   | 23.00   |
| 7/8   | 12    | 1.00   | 12.00   | 1 1/4 | 12    | 2.50   | 30.00   |
| 7/8   | 15    | 1.25   | 15.00   | 1 1/4 | 15    | 2.92   | 35.00   |
| 7/8   | 18    | 1.38   | 16.50   | 1 1/4 | 18    | 3.34   | 40.00   |
| 1     | 12    | 1.27   | 15.20   | 1 1/4 | 24    | 3.75   | 45.00   |
| 1     | 15    | 1.50   | 18.00   | 1 1/4 | 30    | 4.17   | 50.00   |

## EXTRA LONG COLD CHISELS

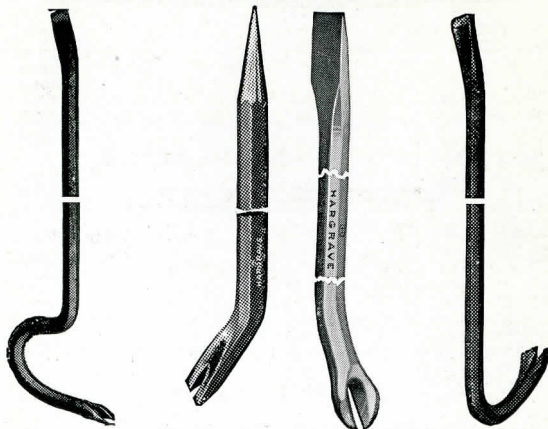


| Width Blade | Lgth. | Each   | Doz.   | Width Blade | Lgth. | Each   | Doz.    |
|-------------|-------|--------|--------|-------------|-------|--------|---------|
| 1/2         | 8     | \$0.39 | \$4.60 | 3/4         | 12    | \$0.84 | \$10.00 |
| 5/8         | 8     | .42    | 5.00   | 7/8         | 12    | 1.00   | 12.00   |
| 3/4         | 8     | .59    | 7.00   | 1           | 12    | 1.25   | 15.20   |
| 1/2         | 10    | .42    | 5.00   | 5/8         | 15    | .75    | 9.00    |
| 5/8         | 10    | .50    | 6.00   | 3/4         | 15    | 1.00   | 12.00   |
| 3/4         | 10    | .67    | 8.00   | 7/8         | 15    | 1.25   | 15.00   |
| 7/8         | 10    | .85    | 10.00  | 1           | 15    | 1.50   | 18.00   |
| 1           | 10    | 1.00   | 12.00  | 3/4         | 18    | 1.08   | 13.00   |
| 1/2         | 12    | .55    | 6.50   | 7/8         | 18    | 1.38   | 16.50   |
| 5/8         | 12    | .63    | 7.50   | 1           | 18    | 1.67   | 20.00   |

## WRECKING AND PINCH BARS.

GOOSE NECK

PINCH BAR

 $\frac{1}{4}$  BEND $\frac{3}{4}$  BEND

An exclusive feature is the spoon or gouge-shaped claw. The tough double beveled biting edges will draw out any nail with or without head.

High carbon steel instead of ordinary steel is used and each is carefully oil-tempered and oil-hardened.

| Length | Size of Steel                   | Goose Neck | $\frac{3}{4}$ Bend | $\frac{1}{4}$ Bend | Pinch Bar |
|--------|---------------------------------|------------|--------------------|--------------------|-----------|
| 12     | $\frac{1}{2}$ -inch, each ..... | \$0.88     | \$0.84             | \$0.84             | \$0.37    |
| 15     | $\frac{5}{8}$ -inch, each ..... | 1.00       | .95                | .92                | .50       |
| 18     | $\frac{5}{8}$ -inch, each ..... | 1.06       | 1.00               | .97                | .63       |
| 24     | $\frac{3}{4}$ -inch, each ..... | 1.25       | 1.17               | 1.09               | .81       |
| 30     | $\frac{3}{4}$ -inch, each ..... | 1.34       | 1.25               | 1.17               | 1.00      |
| 36     | $\frac{7}{8}$ -inch, each ..... | 1.67       | 1.59               | 1.46               | 1.34      |
| 42     | $\frac{7}{8}$ -inch, each ..... | 2.09       | 2.00               | 1.88               | 1.55      |

## FILE CLEANER.



This File Cleaner or File Card has tempered steel wire teeth which will not turn over by coming in contact with file. Has heavy hardwood handle and is neatly finished.

Stock No. 364—Price.....Each \$0.50      Dozen \$6.00

## BRACE WRENCHES.

Standard Square and Hexagon.

These wrenches are made of malleable iron, hardened so as to give the greatest durability together with maximum strength.

Each size is accurately drifted to United States standard nut sizes. A shoulder prevents the nut working far up into the wrench and the open shank prevents clogging with dirt and also enables the user to handle the wrench in places where a brace would not go.

\*Size opening given below for both Square and Hexagon Wrenches is measurement from flat to flat.

Please Order by Stock Number.



## SQUARE OPENINGS.

For U. S. Standard Nuts, Cap Screws and Set Screws.

| Stock No. | *Size Opening           | Bolt Size        | Cap Screw      | Set Screw      | Price Per Doz. | Price Each |
|-----------|-------------------------|------------------|----------------|----------------|----------------|------------|
| 151       | $\frac{5}{16}$          | ..               | ..             | $\frac{5}{16}$ | \$3.50         | \$0.30     |
| 152       | $\frac{3}{8}$           | ..               | $\frac{1}{4}$  | $\frac{3}{8}$  | 3.50           | .30        |
| 153       | $\frac{7}{16}$          | ..               | $\frac{5}{16}$ | $\frac{7}{16}$ | 4.00           | .34        |
| 154       | $\frac{1}{2}$           | $\frac{1}{4}$    | $\frac{3}{8}$  | $\frac{1}{2}$  | 4.50           | .38        |
| 155       | $\frac{9}{16}$          | $\frac{5}{16}$   | $\frac{7}{16}$ | $\frac{9}{16}$ | 5.00           | .42        |
| 156       | $\frac{5}{8}$           | ..               | $\frac{1}{2}$  | $\frac{5}{8}$  | 6.00           | .50        |
| 1560      | $\frac{11}{16}$         | $\frac{3}{8}$    | $\frac{9}{16}$ | ..             | 6.50           | .55        |
| 157       | $\frac{13}{16}$         | $\frac{7}{16}$   | $\frac{5}{8}$  | $\frac{3}{4}$  | 7.00           | .59        |
| 158       | $\frac{7}{8}$           | $\frac{1}{2}$    | $\frac{3}{4}$  | $\frac{7}{8}$  | 7.50           | .63        |
| 159       | 1                       | $\frac{9}{16}$   | ..             | 1              | 8.00           | .67        |
| 160       | $1\frac{1}{8}$          | $\frac{5}{8}$    | $\frac{7}{8}$  | $1\frac{1}{8}$ | 9.00           | .75        |
| 161       | $1\frac{1}{4}$          | $\frac{3}{4}$    | 1              | $1\frac{1}{4}$ | 10.00          | .84        |
| 162       | $\frac{7}{16} \times 7$ | inches long..... |                |                | 6.00           | .50        |
| 163       | $\frac{9}{16} \times 7$ | inches long..... |                |                | 7.00           | .59        |

## HEXAGON OPENINGS.

For U. S. Standard Nuts and Cap Screws.

| Stock No. | *Size Opening   | Bolt Size      | Cap Screw      | Price Per Doz. | Price Each |
|-----------|-----------------|----------------|----------------|----------------|------------|
| 165       | $\frac{5}{16}$  | ..             | ..             | \$3.50         | \$0.30     |
| 166       | $\frac{3}{8}$   | ..             | ..             | 3.50           | .30        |
| 167       | $\frac{7}{16}$  | ..             | $\frac{1}{4}$  | 4.00           | .34        |
| 168       | $\frac{1}{2}$   | $\frac{1}{4}$  | $\frac{5}{16}$ | 4.50           | .38        |
| 169       | $\frac{9}{16}$  | $\frac{5}{16}$ | $\frac{3}{8}$  | 5.00           | .42        |
| 170       | $\frac{5}{8}$   | ..             | $\frac{7}{16}$ | 6.00           | .50        |
| 171       | $\frac{11}{16}$ | $\frac{3}{8}$  | ..             | 6.50           | .55        |
| 172       | $\frac{13}{16}$ | $\frac{7}{16}$ | $\frac{1}{2}$  | 7.00           | .59        |
| 173       | $\frac{7}{8}$   | $\frac{1}{2}$  | $\frac{5}{8}$  | 7.50           | .63        |
| 1731      | 1               | $\frac{9}{16}$ | $\frac{3}{4}$  | 8.00           | .67        |
| 1732      | $1\frac{1}{8}$  | $\frac{5}{8}$  | $\frac{7}{8}$  | 9.00           | .75        |
| 1733      | $1\frac{1}{4}$  | $\frac{3}{4}$  | 1              | 10.00          | .84        |

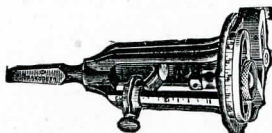
## SPOKE POINTER.



We make two sizes of spoke pointers, each size either with or without the gauge; the smaller size pointing to  $1\frac{3}{8}$  inches, and the larger to 2 inches. The knives are held by two screws, and so placed as to give a paring cut. This tool being made in one solid piece, insures the greatest possible strength. Furnished with round shank also.

| Stock                                    | Each   | Dozen   |
|------------------------------------------|--------|---------|
| No. 342—Small size, with gauge.....      | \$1.13 | \$13.50 |
| No. 343—Large size, with gauge.....      | 1.42   | 17.00   |
| No. 344—Small size, without gauge.....   | 1.00   | 12.00   |
| No. 345—Large size, without gauge.....   | 1.25   | 15.00   |
| No. 346—No. 342 and 344 knives only..... | .38    | 4.50    |
| No. 347—No. 343 and 345 knives only..... | .50    | 6.00    |
| Round shanks 25% extra.                  |        |         |

## HOLLOW AUGER.



Cuts any size tenon from  $\frac{1}{4}$  inch to  $1\frac{1}{4}$  inches, 3 inches long.

The knife of this auger is of the best tool steel, properly hardened and drawn. It is readily adjusted for a rough or finished cut. All castings are of best malleable iron. The frame is in one piece with a heavy forged steel shank. Only one adjustment for size is required. The adjusting nut is bronze. Each tool is tested.

|                                    |             |               |
|------------------------------------|-------------|---------------|
| Stock No. 340—Price.....           | Each \$7.00 | Dozen \$84.00 |
| Stock No. 341—Price knives only... | Each .50    | Dozen 6.00    |
| Round shanks 25% extra.            |             |               |

## BENCH STOP.

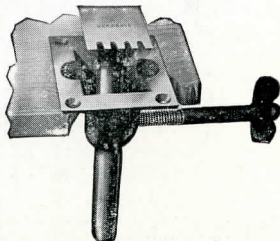
This is one of the simplest and most effective bench stops in the market.

There are no springs to get out of order, no screwdriver needed to operate it, and you do not have to reach under the bench to adjust it.

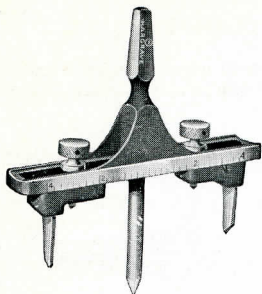
The shank can be raised any distance to 4 inches.

Japaned and polished.

|                             |  |
|-----------------------------|--|
| Stock No. 401—              |  |
| Each, \$1.50. Dozen \$18.00 |  |



## CIRCLE METAL CUTTER.



For cutting circular holes in sheet metal, wood or fiber. Especially useful for installation of Auto Clocks, etc.

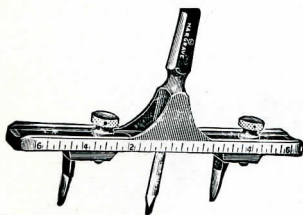
The body of the tool is malleable iron, and the blades of best tool steel, ground and tempered for cutting metal.

Adjusted by knurled thumb screw. Capacity for cutting circles from 1" to 4" in diameter to  $\frac{7}{8}$ " deep.

No. 1405 with steel center pin. Each \$2.50; Dozen \$30.00.

No. 1406 with center drill to bore hole. Each \$3.17; Dozen \$38.00.

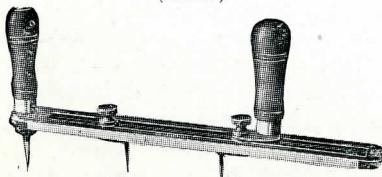
## WASHER CUTTER (Brace)



This tool is made in two sizes: Nos. 405 and 406 to cut up to 4 inches and Nos. 407 and 408 to 6 inches. They are used for cutting gaskets from sheet metal, paper, rubber, cutting both inner and outer circle at the same time, and adapted to any ordinary brace.

| Stock                              | Each   | Dozen   |
|------------------------------------|--------|---------|
| No. 405—4-inch, with gauge.....    | \$1.50 | \$18.00 |
| No. 406—4-inch, without gauge..... | 1.25   | 15.00   |
| No. 407—6-inch, with gauge.....    | 1.75   | 21.00   |
| No. 408—6-inch, without gauge..... | 1.50   | 18.00   |
| No. 409—Knives only.....           | .42    | 5.00    |
| No. 410—Screws only.....           | .17    | 2.00    |

## WASHER CUTTER—20-Inch. (Hand)



This tool is adapted to cutting gaskets from 4 to 20 inches in diameter.

|                                     |             |               |
|-------------------------------------|-------------|---------------|
| Stock No. 411—Price.....            | Each \$2.50 | Dozen \$30.00 |
| Stock No. 409—Price, knives only .. | Each .42    | Dozen 5.00    |
| Stock No. 410—Price. Screws only .. | Each .17    | Dozen 2.00    |

## STEEL BAR CLAMPS.

These are strong, durable, convenient general purpose Clamps. They are especially useful in all wide clamping, such as sash, doors, blinds, furniture, etc.

## NEW ADJUSTABLE.



## PERFECTION.

Trade Mark Registered



These Clamps are made in two patterns—regular and heavy. The regular pattern has clamping surfaces or jaws 2 inches deep,  $1\frac{7}{8}$  inches wide. The clamping surfaces of the heavy pattern are  $2\frac{1}{4} \times 2\frac{1}{4}$  inches.

The bar is high carbon manganese steel, giving great strength. Crank, frame, tip and slide are of the best grade of malleable iron. Dog for slide is tempered steel.

Screw for regular pattern is  $\frac{5}{8}$ -inch in diameter and for the heavy pattern,  $\frac{3}{4}$ -inch in diameter. It has deep cut Acme thread, with extra long bearing, insuring long life to the clamp.

| With $1\frac{1}{2} \times \frac{1}{4}$ -inch Bar— |               | With $1\frac{3}{4} \times \frac{3}{8}$ -inch Bar— |                |
|---------------------------------------------------|---------------|---------------------------------------------------|----------------|
| (Reg. Pattern) Each                               | Pair          | (Heavy Pattern) Each                              | Pair           |
| 2 $\frac{1}{2}$ ft. opening ..                    | \$3.90 \$7.80 | 5 ft. opening...                                  | \$9.00 \$18.00 |
| 3 ft. opening ..                                  | 4.00 8.00     | 6 ft. opening...                                  | 9.50 19.00     |
| 4 ft. opening ..                                  | 4.50 9.00     | 8 ft. opening...                                  | 11.00 22.00    |
| 5 ft. opening ..                                  | 5.00 10.00    | 10 ft. opening...                                 | 14.00 28.00    |

## STEEL BAR CLAMPS

### "I" BAR CLAMP.

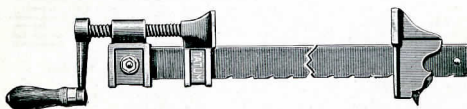


This is a powerful Clamp having "I"-shape high carbon steel bar  $1\frac{1}{2} \times \frac{5}{8} \times \frac{1}{8}$  inches.

Steel screw,  $\frac{5}{8}$  inch in diameter with deep cut Acme thread and long bearing, insuring long life to the Clamp.

Crank, frame, tip and slide are malleable. Slide is fitted with steel pin for engaging the notches, which will wear much longer than malleable and can be replaced when necessary.

### TATUM "NEVERBREAK"

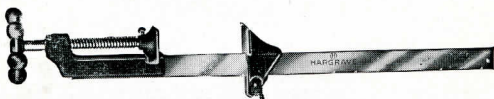


Bar is high carbon steel same as used in the Perfection and New Adjustable Clamps. Tatum parts are of gray iron excepting the crank which is malleable iron and the dog which is tempered steel. Tatum Clamp is made in regular pattern only, with bar  $1\frac{1}{2} \times \frac{1}{4}$  inch.

List prices for both "I" Bar and Tatum Neverbreak Clamps are as follows:

|                 | Each   | Pair   |                 | Each   | Pair   |
|-----------------|--------|--------|-----------------|--------|--------|
| 2 ft. opening.. | \$3.80 | \$7.60 | 4 ft. opening.. | \$4.50 | \$9.00 |
| 2½ ft. opening  | 3.90   | 7.80   | 5 ft. opening.. | 5.00   | 10.00  |
| 3 ft. opening.. | 4.00   | 8.00   | 6 ft. opening.. | 5.50   | 11.00  |

## STEEL BAR CLAMPS JOINERS.



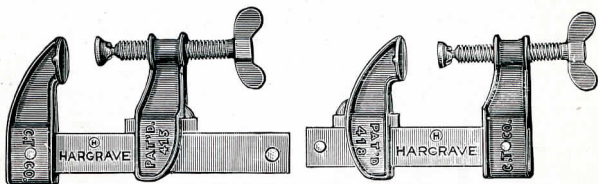
Our joiners' clamp is intended for narrow glueing and clamping where speed and rapidity of handling is more necessary than power. High Carbon Manganese Steel Bar  $1\frac{1}{8}$ " x  $\frac{3}{8}$ ".

|                 |                                 |      |        |      |        |
|-----------------|---------------------------------|------|--------|------|--------|
| Stock No. 458—1 | foot opening.....               | Each | \$3.30 | Pair | \$6.60 |
| Stock No. 459—1 | $\frac{1}{2}$ feet opening..... | Each | 3.40   | Pair | 6.80   |
| Stock No. 460—2 | feet opening.....               | Each | 3.50   | Pair | 7.00   |
| Stock No. 461—2 | $\frac{1}{2}$ feet opening..... | Each | 3.60   | Pair | 7.20   |
| Stock No. 462—3 | feet opening.....               | Each | 3.70   | Pair | 7.40   |

## QUICK CLAMPS. (Patented)

Stock Nos. 498, 500, 502.

Stock Nos. 499, 501 503



|                      |                                         |                           |
|----------------------|-----------------------------------------|---------------------------|
| No. 498 and 499..... | Bar, $1\frac{1}{8}$ x $\frac{3}{8}$ in. | Depth 2 in.               |
| No. 500 and 501..... | Bar, $1\frac{1}{2}$ x $\frac{1}{4}$ in. | Depth, $2\frac{1}{2}$ in. |
| No. 502 and 503..... | Bar, $1\frac{3}{4}$ x $\frac{3}{8}$ in. | Depth, $4\frac{1}{2}$ in. |

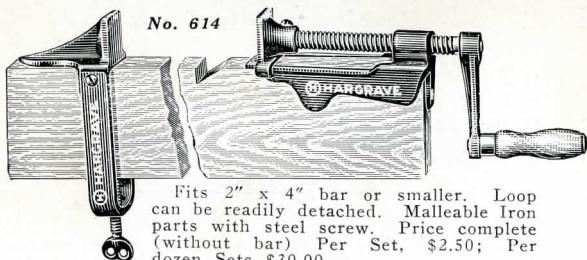
Can be instantly applied or removed from the work. Save a great amount of time over the ordinary Clamp, are handier, take up less room, and are more durable.

Bars are High Carbon Manganese Steel. Frames, slides and tips are malleable. Screw is Steel.

Sizes listed below are for stock, prices for other sizes are in proportion.

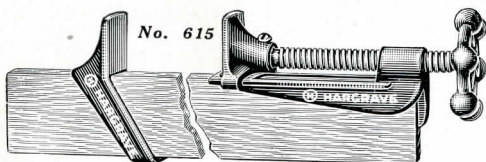
| Opening         | Nos. 498-499 |         | Nos. 500-501 |         | Nos. 502-503 |         |
|-----------------|--------------|---------|--------------|---------|--------------|---------|
|                 | Each         | Dozen   | Each         | Dozen   | Each         | Dozen   |
| 6 inches .....  | \$1.25       | \$15.00 | \$1.59       | \$19.00 | \$2.34       | \$28.00 |
| 8 inches .....  | 1.30         | 15.50   | 1.67         | 20.00   | 2.50         | 30.00   |
| 10 inches ..... | 1.34         | 16.00   | 1.75         | 21.00   | 2.67         | 32.00   |
| 12 inches ..... | 1.38         | 16.50   | 1.84         | 22.00   | 2.84         | 34.00   |
| 18 inches ..... | 1.50         | 18.00   | 2.09         | 25.00   | 3.34         | 40.00   |
| 24 inches ..... | 1.67         | 20.00   | 2.25         | 27.00   | 3.84         | 46.00   |

## DETACHABLE CLAMP FIXTURE



Fits 2" x 4" bar or smaller. Loop can be readily detached. Malleable Iron parts with steel screw. Price complete (without bar) Per Set, \$2.50; Per dozen Sets \$30.00.

## CLAMP FIXTURE



Fits 1½" x 2¼" bar. Malleable Iron parts and steel screw. Price complete (without bar) Per Set, \$1.25; Per dozen Sets \$15.00.

No. 616—With bar, opening 1 ft., Per Doz. \$21.60

No. 617—With bar, opening 2 ft., Per Doz. \$24.00

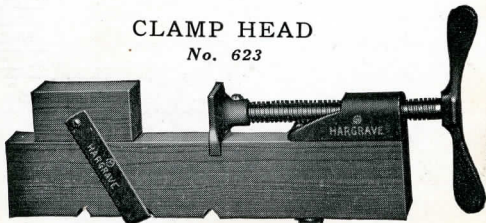
No. 618—With bar, opening 3 ft., Per Doz. \$27.00

No. 619—With bar, opening 4 ft., Per Doz. \$30.00



## CLAMP HEAD

No. 623



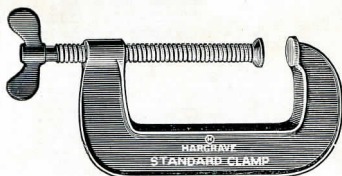
NO WOODEN PARTS ARE FURNISHED IN ANY OF THE FOLLOWING NUMBERS:

No. 623—Includes cast iron frame (or nut) and tip with steel screw, malleable handle and bolt for holding frame to bar. Price, each, \$0.75; Doz. \$9.00.

No. 624—Steel loop and pin only to fit wood bar 1½ x 2¼ in. for holding wood block in position. Price, each, \$0.15; Doz. \$1.80.

No. 625—Malleable iron slide to fit wood bar 1½ x 2¼ in. Price, each, \$0.25; Doz. \$3.00.

## STANDARD CARRIAGE CLAMP.



An exceedingly well made tool. Furnished with riveted button tip unless ball and socket tip is specified. Steel screw, deep acme thread, long bearing, long life, no broken screws. Shaped grip for hand, heavy ribbed frame.

|          |                        |      |        |       |         |
|----------|------------------------|------|--------|-------|---------|
| No. 536— | 2½-in. opening.....    | Each | \$0.59 | Dozen | \$ 7.00 |
| No. 537— | 3-in. opening. . . . . | Each | .67    | Dozen | 8.00    |
| No. 538— | 4-in. opening. . . . . | Each | .92    | Dozen | 11.00   |
| No. 539— | 5-in. opening.....     | Each | 1.17   | Dozen | 14.00   |
| No. 540— | 6-in. opening.....     | Each | 1.50   | Dozen | 18.00   |
| No. 541— | 7-in. opening.....     | Each | 1.84   | Dozen | 22.00   |
| No. 542— | 8-in. opening.....     | Each | 2.34   | Dozen | 28.00   |
| No. 544— | 10-in. opening.....    | Each | 3.00   | Dozen | 36.00   |
| No. 545— | 12-in. opening.....    | Each | 3.84   | Dozen | 46.00   |

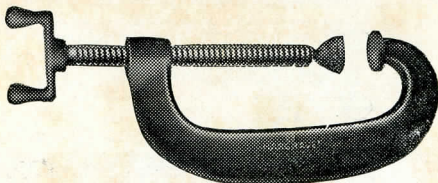
## BODY CLAMP



Deeper and stronger than the Standard Carriage Clamp. Designed especially for automobile body trade and work requiring longer than ordinary reach. Steel screw, shaped grip. Furnished with riveted button tip unless ball and socket tip is specified.

| Stock   | Size opening | Depth                          | List Each | List Dozen |
|---------|--------------|--------------------------------|-----------|------------|
| No. 603 | 3 in.        | 2 <sup>5</sup> / <sub>16</sub> | \$0.92    | \$11.00    |
| No. 604 | 4 in.        | 2 <sup>1</sup> / <sub>2</sub>  | 1.17      | 14.00      |
| No. 605 | 5 in.        | 3                              | 1.50      | 18.00      |
| No. 606 | 6 in.        | 3 <sup>5</sup> / <sub>16</sub> | 1.83      | 22.00      |
| No. 607 | 7 in.        | 3 <sup>1</sup> / <sub>2</sub>  | 2.34      | 28.00      |
| No. 608 | 8 in.        | 3 <sup>3</sup> / <sub>4</sub>  | 2.84      | 34.00      |
| No. 610 | 10 in.       | 4                              | 3.50      | 42.00      |
| No. 612 | 12 in.       | 4 <sup>1</sup> / <sub>4</sub>  | 4.17      | 50.00      |

## MACHINISTS' CLAMP.



This Clamp is designed for heavy work. Frame, tip and handle are malleable iron. Screw is steel with ball and socket tip.

|                |                     |             |               |
|----------------|---------------------|-------------|---------------|
| Stock No. 553— | 5-in. opening.....  | Each \$1.42 | Dozen \$17.00 |
| Stock No. 554— | 7-in. opening.....  | Each 1.67   | Dozen 20.00   |
| Stock No. 555— | 10-in. opening..... | Each 2.84   | Dozen 34.00   |

## CABINET CLAMP.



A well made small clamp with machine cut screw and ball and socket tip. Made entirely of malleable iron. Strong and well finished.

| Stock   | Opening | Depth     | Each   | Dozen  |
|---------|---------|-----------|--------|--------|
| No. 549 | 2-in.   | 1 1/8-in. | \$0.25 | \$3.00 |
| No. 550 | 3-in.   | 1 1/4-in. | .28    | 3.50   |

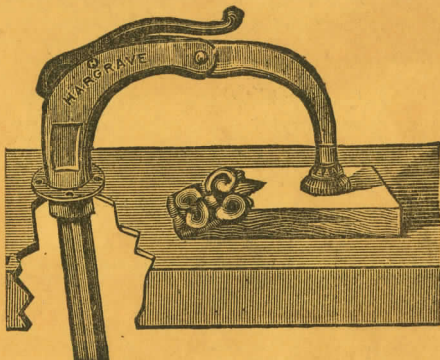
## JUNIOR CLAMP.



A well made and nicely finished small clamp. Most useful on jig and pattern work; for light glueing; jewelers' and instrument work. Malleable frame, steel screw.

|                |                                     |
|----------------|-------------------------------------|
| Stock No. 557— | Opens 1 inch, reach 1/2 inch.       |
| Price, Each... | \$0.25      Dozen.....\$3.00        |
| Stock No. 570— | Opens 1 1/2 inch, reach 1 1/8 inch. |
| Price, Each... | \$0.42      Dozen.....\$5.00        |

## ADJUSTABLE CARVERS' CLAMP.

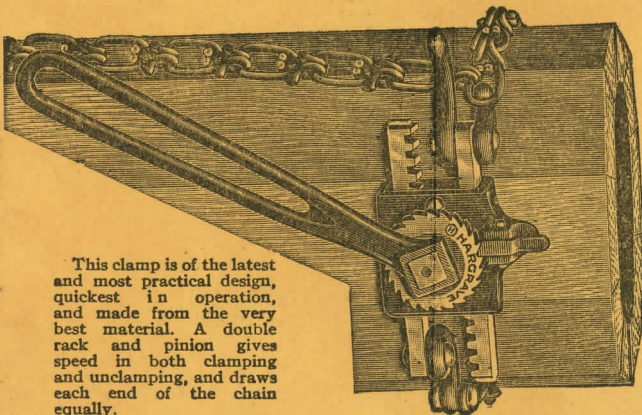


This clamp is especially adapted to carvers' and cabinet makers' work. With each clamp is furnished two wrought iron washers and two malleable ferrules, which can be placed in the bench to suit the operator.

It clamps by means of an eccentric, is instantly set, and is so constructed that it will firmly hold any material, from thin veneer to a block 10 inches thick. Made of malleable iron, very strong and neatly japanned.

Stock No. 556.....Each \$3.00    Dozen \$36.00

## COLUMN CLAMP.



This clamp is of the latest and most practical design, quickest in operation, and made from the very best material. A double rack and pinion gives speed in both clamping and unclamping, and draws each end of the chain equally.

Stock No. 560—With 4 feet of chain. Each \$3.00    Dozen \$36.00

Extra length of chain 20 cents per foot.

One wrench with each clamp.

Weight, 5½ pounds, each.



# *Quality Tools*

CATALOGUE No. 91

---

Manufactured by

**THE CINCINNATI TOOL COMPANY**

**NORWOOD, CINCINNATI, OHIO, U. S. A.**

**Established 1879**

**Incorporated 1884**